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**ABSTRACT**PLANT DESATURASES -  
COMPOSITIONS AND USES

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By this invention, compositions and methods of use of plant desaturase enzymes, especially  $\Delta$ -9 desaturases, are provided. Of special interest are methods and compositions  
10 of amino acids and nucleic acid sequences related to biologically active plant desaturases as well as sequences, especially nucleic acid sequences, which are to be used as probes, vectors for transformation or cloning intermediates. Biologically active sequences may be found in a sense or  
15 anti-sense orientation as to transcriptional regulatory regions found in various constructs.